

What is claimed is:

1. A liquid crystal display device comprising a liquid crystal panel, the liquid crystal panel comprising:

a first substrate on which a plurality of pixel regions each including a pixel electrode, an active element corresponding to the pixel electrode and a color filter layer are arranged in a matrix array;

a second substrate which forms common electrodes thereon, each common electrode generating an electric field between the common electrode and the pixel electrode; and

a liquid crystal layer formed between the first substrate and the second substrate, wherein

a first electrode layer which is formed of a conductive thin film and is electrically connected to a drive output terminal of the active element is provided to each pixel region of the first substrate,

an opening portion is formed in a portion of the color filter layer in each pixel region of the first substrate, and

a second electrode layer which constitutes the pixel electrode above the color filter layer and is electrically connected to the first electrode layer through the opening portion is formed.

2. A liquid crystal display device according to claim 1, wherein the first electrode layer is formed over a substantially whole area of the pixel region and the second electrode layer covers the color filter with an area equal to an area of the first electrode layer.

3. A liquid crystal display device according to claim 1, wherein the opening portion is formed at a position away from a position where the drive output terminal of the active element is formed.

4. A liquid crystal display device according to claim 1, wherein the opening portion is formed at a position where the drive output terminal of the active element is formed.

5. A liquid crystal display device according to claim 1, wherein the first electrode layer is arranged in the vicinity of a position where the drive output terminal of the active element is formed and the opening portion of the color filter layer is arranged in the vicinity of a position where the drive output terminal of the active element is formed.

6. A liquid crystal display device comprising a liquid crystal panel, the liquid crystal panel comprising:

10 a first substrate on which a plurality of pixel regions each including a pixel electrode, an active element driving the pixel electrode and a color filter layer formed corresponding to the active element are arranged in a matrix array;

a second substrate which forms common electrodes thereon, each common electrode generating an electric field between the common electrode and the pixel electrode; and

15 a liquid crystal layer sandwiched between the first substrate and the second substrate, wherein

a first electrode layer which is formed of a conductive thin film and is electrically connected to a drive output terminal of the active element is provided to the pixel region of the first substrate;

20 the color filter layer is formed such that an exposing portion which exposes a portion of the first electrode layer is formed over the first electrode layer within the pixel region, and

a second electrode layer which constitutes the pixel electrode over the color filter layer and is electrically connected with the first electrode layer at the exposing portion is formed.

7. A liquid crystal display device according to claim 6, wherein the color filter layer is cut off at some end peripheries thereof to be retracted from the end periphery of the first electrode layer.
8. A liquid crystal display device according to claim 6, wherein the color filter layer has a dividing portion thereof which divides the color filter layer into at least two sections to expose the first electrode layer within the pixel region, and the first electrode layer and the second electrode layer are electrically connected at the dividing portion to form the pixel electrode.
9. A liquid crystal display device according to claim 8, wherein the dividing portion is formed in one portion substantially at the center of the pixel region.
10. A liquid crystal display device according to claim 6, wherein the second electrode layer and the common electrode of the second substrate are bridged with spacers which define a gap formed between the first substrate and the second substrate.
11. A liquid crystal display device according to claim 10, wherein the spacer is formed at a portion where the first electrode layer and the second electrode layer are electrically connected with each other.
12. A liquid crystal display device according to claim 6, wherein a light shielding layer is formed at a portion of the second substrate which faces a portion where the first electrode layer and the second electrode layer are electrically connected to each other.
13. A liquid crystal display device according to claim 12, wherein a portion where the first electrode layer and the second electrode layer are electrically connected to each other is an opening portion formed in the color filter layer at a position where the drive output terminal of the active element is formed.
14. A liquid crystal display device according to claim 12, wherein the light shielding layer is provided at a position which corresponds to the exposing portion of the first electrode layer.

15. A liquid crystal display device according to claim 13, wherein the light shielding layer is provided at a position which corresponds to the opening portion formed in the color filter layer.

16. A liquid crystal display device according to claim 8, wherein the light shielding
5 layer is provided at a position corresponding to the dividing portion of the color filter layer.